

ABSTRACT OF THE DISCLOSURE

According to the present invention, a scene description that conforms to the state of a transmission line or the processing ability of a receiving side can be transmitted. Consequently, occurrence of a drawback such as unexpected missing of part of a scene that is unintended to a transmitting side is avoided. Even when a transmission rate is changed, signals are decoded according to a scene construction that conforms to the resultant transmission rate. A change in information needed to decode signals is explicitly reported to the receiving side. This relieves the receiving side of the necessity of sampling the information, which is needed to decode signals, from the signals. A data transmission system consists mainly of a server that transmits a scene description which describes the structure of multimedia data to be used to construct a scene, and a receiving terminal that constructs the scene according to the scene description. The server includes a scene description processing unit that transfers a scene description which conforms to the state of a transmission line and/or a request issued from the receiving terminal.